ISBN 0-7726-0148-8

AGRICULTURE PROFILE

SALMON ARM DISTRICT

Province of British Columbia
Ministry of Agriculture and Food

VICTORIA, B.C. AUGUST, 1984

Canadian Cataloguing in Publication Data
Main entry under title:
Salmon Arm District

(Agriculture profile, ISSN 0710-3042)
Produced by Policy Development and Economics Division. Cf. Acknowledgements.
Revision of: McFadden, M., 1955- . Salmon Arm District. 1981.
ISBN 0-7726-0148-8

1. Agriculture - Economic aspects - British Columbia - Salmon Arm Region. 2. Agriculture - British Columbia - Salmon Arm Region. I. McFadden, M., 1955- . Salmon Arm District. II. British Columbia. Ministry of Agriculture and Food. Policy Development and Economics Division. III. Series.

HD1790.B7S24 1984 338.1'09711'41 C84-092233-7

BRITISH COLUMBIA AGRICULTURAL REPORTING REGIONS

ACKNOWLEDGEMENTS

This series of agricultural profiles was produced by the Policy Development and Economics Division, British Columbia Ministry of Agriculture and Food.

The report is descriptive, and includes statistical information from a variety of sources. It is designed primarily as an information base for use by Ministry of Agriculture and Food staff in district goal identification and program planning.

The authors acknowledge with gratitude the assistance and co-operation received from individuals and organizations both public and private during the preparation of this report.

This report is one of a series covering the eighteen District Agriculturists' Office Areas of British Columbia.

Abbotsford
Chilliwack
Cloverdale
Courtenay
Cranbrook
Creston
Dawson Creek
Duncan
Fort St. John
Kamloops
Oliver
Prince George
Quesnel
Salmon Arm
Smithers
Vanderhoof
Vernon
Williams Lake

AGRICULTURAL PROFILE - SALMON ARM DISTRICT

PREFACE

BACKGROUND

The British Columbia Ministry of Agriculture and Food has divided the Province into eighteen agricultural districts, each served by a District Agriculturist. Profiles of these districts were first developed in 1980 under the Canada-British Columbia Agriculture and Rural Development Subsidiary Agreement (A.R.D.S.A).

The availability of new data from the 1981 Census of Agriculture resulted in a need for major revision. The present profile is an updated version reflecting the Census information. At the same time, the profiles have been expanded to include information not previously available, and many of the tables have been restructured to show a more detailed breakdown of different variables by farm sales.

CAVEAT

As the agricultural districts were designed to meet the needs of the farming community, and as their boundaries were developed to ensure efficient use of the District Agriculturist's time, the boundaries do not necessarily coincide with those of the Census Divisions or Subdivisions. However, statistical data from the Census of Agriculture is currently only available for Census Divisions and Subdivisions. An attempt was made, both in the original profiles and in these updates, to choose census divisions and subdivisions which most closely represent the agricultural districts. In this profile all references to the Salmon Arm District are to the area covered by census divisions 39-Columbia Shuswap subs. B and C and 37-North Okanagan sub. A.

STRUCTURE

The profiles have been designed to provide a comprehensive source of statistical information on each agricultural district. They have been divided into three sections: an overview of the district, a description of the farms and farmers of the district, and a description of the farm products of the district.

CONTENTS

Page

Acknowledgements. ii

Peface. iii
Background
Structure
Scope
Methodology

List of Tables. iv

List of Maps. v

Overview: Salmon Arm District. 2

Salmon Arm: Agricultural Resource Base 13
Farm taxfiler's Income
Agricultural Employment
Agricultural Activity
Agricultural Land Development Act Work
Farm Capital
Age of Operators

Salmon Arm: Agricultural Production. 24
Livestock and Related Products
Tree Fruit
Small Fruit/Vegetables

Appendix
Terms used in Census of Agriculture 33
Terms used in Land Capability Ratings 35

LIST OF TABLES

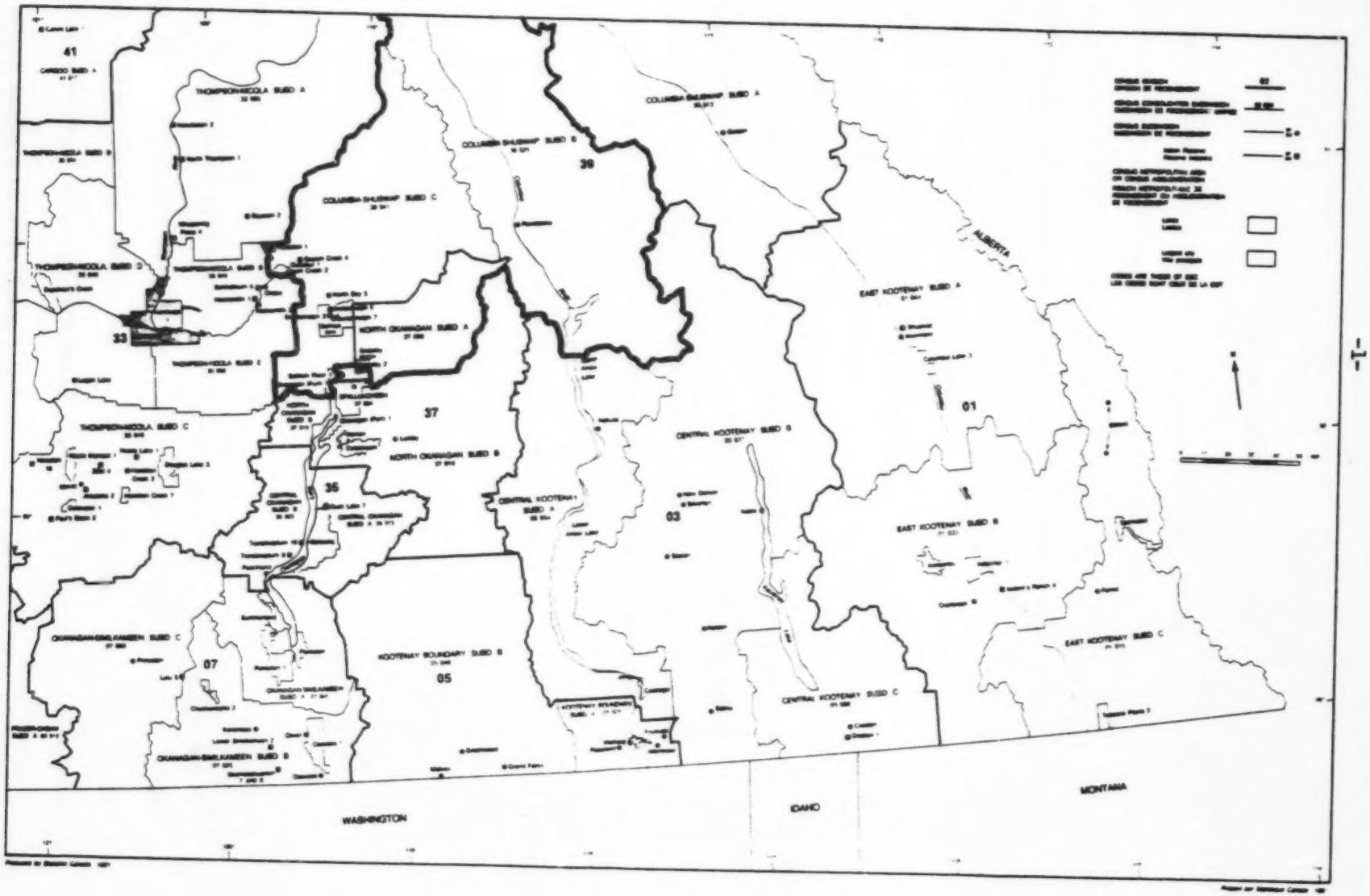
Page

1. Climatic Data -Salmon Arm/Niagara Falls/Saskatoon Compared. 3
2. Agricultural Land Reserve Areas: Summary Table 5
3. Agriculture Land Capability 7
4. Agriculture and Grazing Lease Data 8
5. Use of Land by Farm Sales Class 9
6. Number of Farms by Farm Sales Class 10
7. Farms Classified by Product Type and Sales. 11
8. Farms Classified by Size and Sales. 12
9. Farms Classified by Capital Value and Sales 14
10. Total Farm Capital by Farm Sales. 15
11. Sales of Farms. 16
12. Average Age of Farmers. 17
13. Farm Taxfilers' Incomes 18
14. Off-Farm Work by Farm Operators - By Type of Work 19
15. Off-Farm Work by Farm Operators - By Number of Days 20
16. Hired Agricultural Labour by Farm Sales 21
17. A.L.D.A. Work Completed 22
18. Spraying, Dusting and Irrigation. 23
19. Use of Fertilizer 23
20. Estimate of Farm Cash Receipts. 25
21. Area in Field Crops by Farm Sales 26
22. Area in Vegetables by Farm Sales. 27
23. Area in Small Fruit by Farm Sales 28
24. Area in Tree Fruit by Farm Sales. 29
25. Area in Specialty Crops by Farm Sales 30
26. Livestock Numbers by Farm Sales 31
27. Poultry Numbers by Farm Sales 32

LIST OF MAPS

	Page
B.C. Agricultural Reporting Regions	i
Salmon Arm Agricultural District.	1
Okanagan-Kootenay A.L.R. Areas.	4
Okanagan Land Capability Ratings.	6

SALMON ARM AGRICULTURAL DISTRICT



OVERVIEW: SALMON ARM DISTRICT OFFICE AREA

The Salmon Arm Agricultural District occupies 1.8 million hectares in the Okanagan Kootenay Agricultural Reporting Region. The district consists of gently rolling hills and fertile valleys, and the rugged Columbia Mountain Range.

Census figures indicate a 1981 population of 41,485, an increase of 4.6 percent over 1976 levels. The urban/rural distribution has remained relatively static with the rural population experiencing a slight increase. Total experienced labour force totals 17,870 with the majority employed in the personal services, trade, communication, construction and agriculture sectors.

Agricultural activity in the district is varied, and involves both hobby and commercial operations. In 1981, cattle production was the primary activity of 39 percent of farms, dairy, assorted field crops and fruit/vegetables accounted for 13, 9, and 11 percent respectively. Dairying was the primary activity of 62 percent of holdings with sales greater than $50,000 in 1981. Farm cash receipts totalled $29 million in 1981, 3.2 percent of the provincial total. Dairy products, cattle and hogs accounted for 44, 13 and 15 percent of receipts respectively.

The Salmon Arm District accounts for 37,255 hectares in agricultural holdings, approximately 2 percent of the provincial total. The total number of farms enumerated in 1981 was 935. Farms are smaller than the provincial average in Salmon Arm where 70 percent of holdings are less than 53 hectares. Average farm size is 26 hectares compared to 109 hectares for the province as a whole. In 1981, 55 percent of farmland was classified as improved compared with 43.4 percent for the province.

Rapidly increasing land values has become a major trend in the Salmon Arm area. This is forcing agriculture towards more intensive land use in order to cover escalating purchase costs. Irrigation development has taken priority, and is an important factor in the expanding production of horticultural crops (particularly sweet corn and small fruits) and forage crops (particularly corn silage). Both the dairy and beef industries are using increasing amounts of corn silage rather than more grazing area. The number of dairy producers has stabilized, however the industry continues to grow as herd size increases. The beef industry is tending toward more backgrounding operations, using locally produced corn silage, rather than just cow-calf operations.

The variety of soil types and microclimatic zones in the district coupled with relative freedom from urban pressures should ensure agricultural expansion in the area for some years to come.

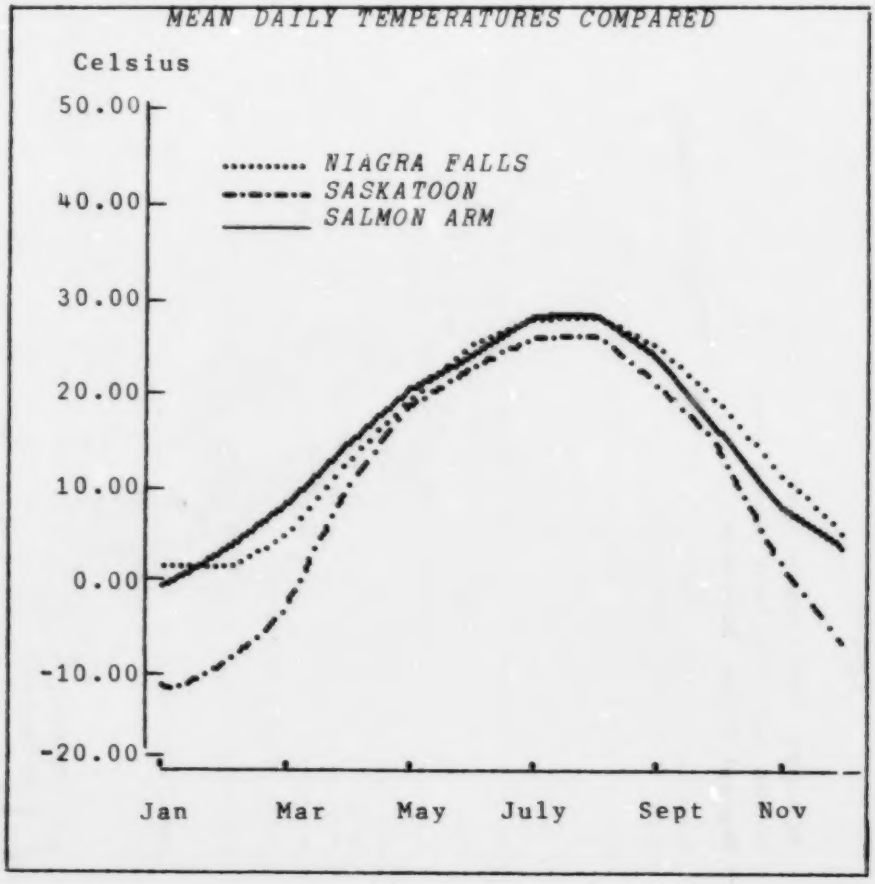
TABLE 1

CLIMATIC DATA

SALMON ARM/NIAGARA FALLS/SASKATOON COMPARED

	SALMON ARM	NIAGARA FALLS	SASKATOON
Growing Degree Days	1,933.2	2,472.7	1,619.9
Frost Free Period	152	172	117
Total Precipitation	533.7	942.3	348.8

Source: Canadian Climate Normals 1951-1980
Temperature and Precipitation Normals 1951-1980
Environment Canada



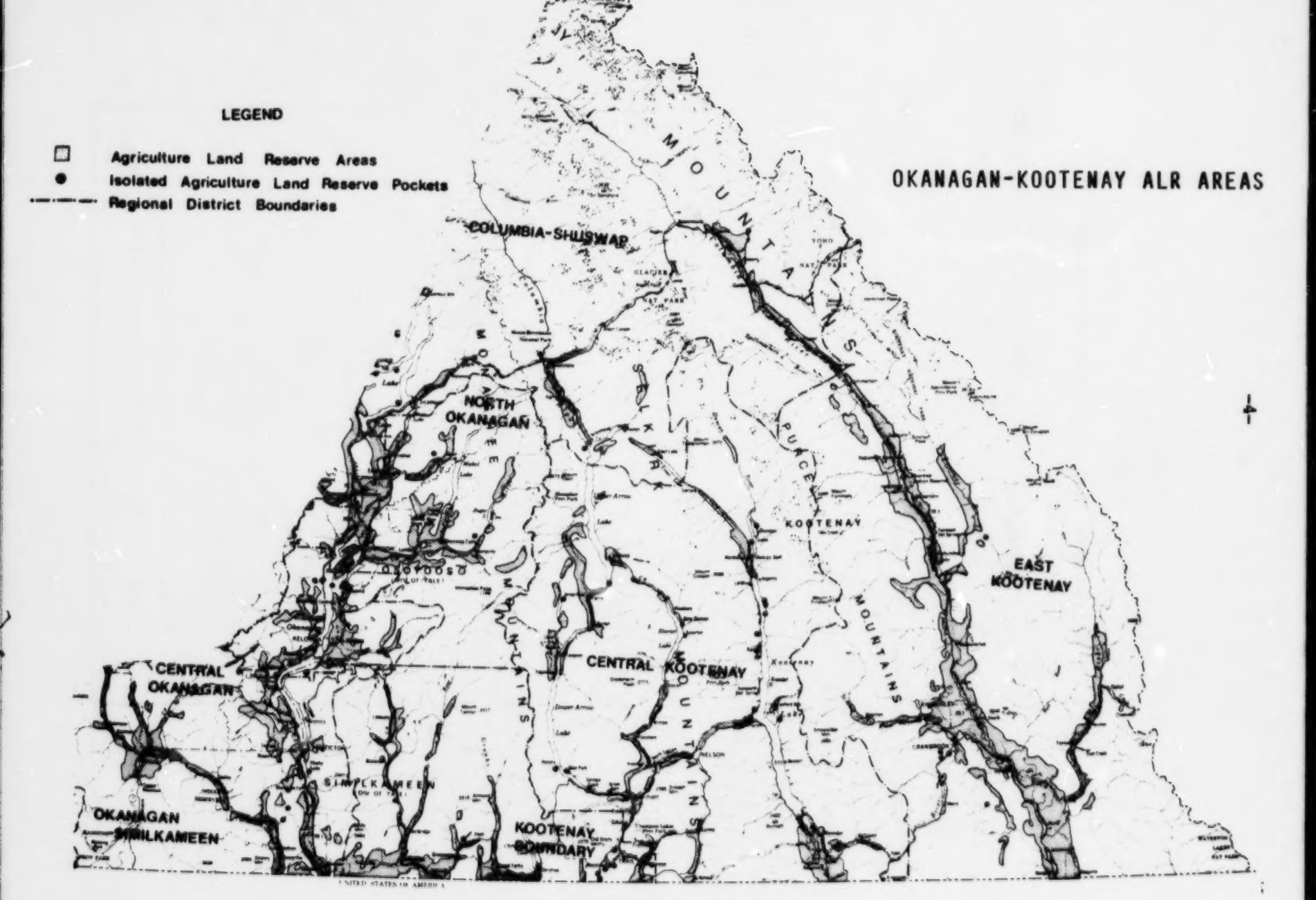

LEGEND
Agriculture Land Reserve Areas
Isolated Agriculture Land Reserve Pockets
Regional District Boundaries
OKANAGAN-KOOTENAY ALR AREAS
COLUMBIA-SHUSWAP
NORTH OKANAGAN
CENTRAL OKANAGAN
CENTRAL KOOTENAY
EAST KOOTENAY
OKANAGAN SIMILKAMEEN
KOOTENAY BOUNDARY
MOUNTAINS
PURCELL
KOOTENAY
SIMILKAMEEN
UNITED STATES OF AMERICA

TABLE 2
OKANAGAN REGION
AGRICULTURAL LAND RESERVE AREAS IN HECTARES
SUMMARY TABLE: LAND CAPABILITY CLASS BY PRESENT LAND USE

Present Land Use

	1	2	3	4	1-4	5	6	7	Water	Total	%Total
Forages and Grains	2,590	13,410	12,480	8,950	37,430	2,940	1,580	220	0	42,170	25
Horticulture	860	1,940	1,690	130	4,620	30	220	10	0	4,880	3
Grassland and Pasture	380	2,380	5,430	9,250	17,440	4,400	4,360	350	0	26,550	16
Forest	150	5,260	12,770	31,890	50,070	21,240	10,910	6,180	0	88,400	52
Non-Productive Lands	80	520	790	840	2,230	670	830	230	4,380	8,340	5
Total	4,060	23,510	33,160	51,060	111,790	29,280	17,900	6,990	4,380	170,340	
% Total	2	14	19	30	66	17	10	4	3		

Source: B.C. Land Inventory Report, Vol. 1, 2
Talisman Project Inc., 1980.

OKANAGAN LAND CAPABILITY

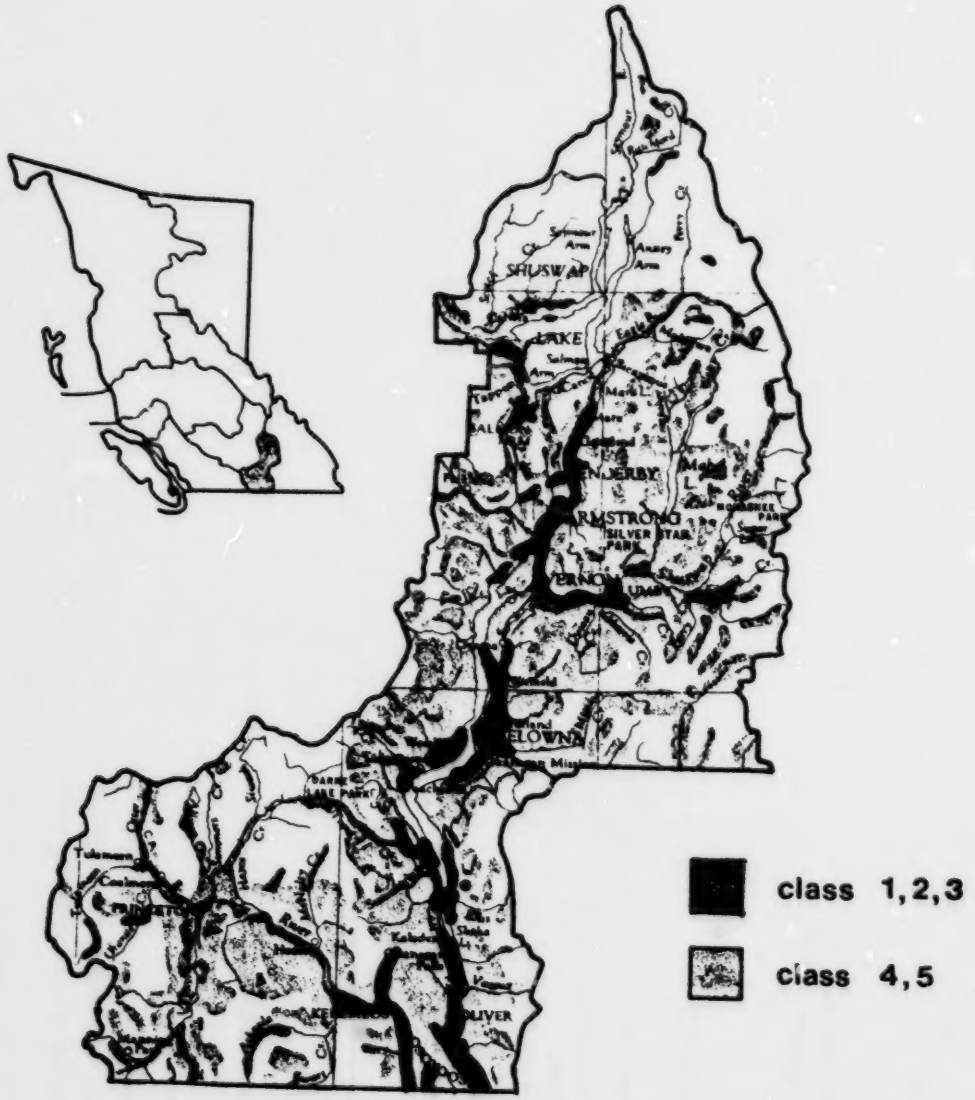


TABLE 3

OKANAGAN REGION

AGRICULTURE LAND CAPABILITY

Class	1	2	3	4	5	6	7	Water Surface	Other*	Total
Hectares ('000s):										
Unimproved	3,209	43,176	93,116	189,730	1,005,969	1,585,079	3,628,992	224,602	19,461	6,793,334
Improved**	28,597	115,310	130,439	250,551	817,671	1,581,293	3,625,410	224,602	19,461	6,793,334
Percent:										
Unimproved	0.05	0.64	1.37	2.79	14.80	23.33	53.42	3.31	0.29	100.0
Improved**	0.42	1.69	1.92	3.68	12.04	23.28	53.37	3.31	0.29	100.0

*Other includes unclassified urban areas, national parks and unmapped portions of the district.
**Rating if land unit were irrigated and/or drained.

Source: Agriculture Land Capacity in British Columbia, ARDA Project #89077, 1976.

TABLE 4
OKANAGAN* REGION
AGRICULTURE AND GRAZING LEASE DATA IN HECTARES

Lease Type: Grazing

Year	No. of Leases	Area
1983	15	1,402.97
1982	0	-
1981	10	666.7
1980	12	677.6
1980-1983	37	2,747.27
TOTAL	157	26,971.05

Lease Type: Extensive Agriculture

1983	0	-
1982	2	82.91
1981	4	585.03
1980	6	185.75
1980-1983	12	853.69
TOTAL	24	1,632.03

Lease Type: Intensive Agriculture

1983	0	-
1982	1	2.20
1981	2	10.81
1980	2	20.58
1980-1983	5	33.59
TOTAL	9	60.41

Total lease area: 1980-1983: 3,634.55
Total lease area: 28,663.49

*Note: These figures include the Kamloops and Kelowna Regional Districts as defined by the Ministry of Land, Parks and Housing which encompass most of the Salmon Arm, Vernon and Oliver District Office areas as classified by the Ministry of Agriculture and Food.

Source: B.C. Crown Land: Range and Cultivated Land Inventory, B.C.M.A. 1984

TABLE 5

USE OF LAND BY FARM SALES CLASS SALMON ARM, 1981-IN HECTARES

	$250-1599	$1600-2499	$2500-4999	$5000-9999	$10000-49999	$50000 OR MORE	TOTAL
Number of Farms	200	111	141	119	142	122	835
Total Area of Farms	4,874	2,828	5,074	5,214	8,916	10,351	37,255
Total Improved Land Area	2,044	1,262	2,134	2,650	5,316	6,991	20,396
Total Area Under Crop	1,094	610	1,039	1,288	2,948	5,418	12,395
Number of Farms Reporting	152	90	119	101	124	109	695
Area of Improved Pasture	687	455	897	996	2,026	1,228	6,289
Number of Farms Reporting	95	69	89	79	100	74	506
Area in Summer Fallow	45	11	33	166	69	64	388
Number of Farms Reporting	14	8	15	10	11	9	67
Other Improved Land Area	218	186	166	201	272	282	1,324
Number of Farms Reporting	144	88	101	91	101	95	620
Total Unimproved Land Area	2,830	1,566	2,941	2,564	3,598	3,360	16,859
Woodland Area	934	548	781	1,456	1,556	1,537	6,813
Number of Farms Reporting	58	43	48	50	60	56	315
Other Unimproved Land Area	1,897	1,018	2,160	1,108	2,045	1,823	10,050
Number of Farms Reporting	91	57	72	54	67	56	397

Source: 1981 Census of Agriculture
December 1983

TABLE 6

SALMON ARM AGRICULTURAL DISTRICT:

NUMBER OF FARMS BY FARM SALES CLASS

SALES	$-2499	$2500-4999	$5000-9999	$10,000+
1971	220	88	81	133
1976	384	98	75	184
1981	311	141	119	264

Source: 1981 Census of Agriculture.

TABLE 7

SALMON ARM AGRICULTURAL DISTRICT

FARMS CLASSIFIED BY PRODUCT TYPE AND SALES -1981 CENSUS

	$250-1599	$1600-2499	$2500-4999	$5000-9999	$10000-49999	$50000 OR MORE	TOTAL
Dairy	5	3	6	4	12	75	105
Cattle	65	45	66	63	71	14	324
Hogs	3	1	1	4	9	14	32
Poultry	29	13	9	3	4	8	66
Wheat	3	1	-	2	3	1	10
Small Grains	5	-	1	3	2	-	11
Other Field Crops	28	5	14	9	13	2	71
Fruits and Vegetables	30	21	16	13	9	4	93
Miscellaneous Specialty	17	9	17	9	14	3	69
Livestock Combination	6	8	9	6	4	1	34
Other Combinations	9	5	2	3	1	-	20
TOTAL	200	111	141	119	142	122	835

SOURCE: Census of Agriculture, 1981

TABLE 8

SALMON ARM AGRICULTURAL DISTRICT

FARMS CLASSIFIED BY SIZE AND SALES-1981 CENSUS

	$250-1599	$1600-2499	$2500-4999	$5000-9999	$10000-49999	$50000 OR MORE	TOTAL
1-2 Acres	3	1	2	1	3	1	11
3-9 Acres	46	22	12	6	4	3	93
10-69 Acres	101	55	75	56	37	15	339
70-129 Acres	16	14	29	21	35	25	140
130-179 Acres	21	11	17	14	30	25	118
180-239 Acres	4	3	2	10	10	23	52
240-399 Acres	6	4	3	7	14	21	55
400-559 Acres	1	-	-	2	4	4	11
560-759 Acres	1	1	-	-	2	3	7
760-1119 Acres	1	-	-	1	2	1	5
1120-1599 Acres	-	-	-	1	1	-	2
1600 Acres and Over	-	-	1	-	-	1	2
TOTAL	200	11	141	119	142	122	835

SOURCE: Census of Agriculture, 1981

SALMON ARM: AGRICULTURAL RESOURCE BASE

Farm Taxfiler's Income

The district has a relatively high proportion of low income operations. In 1981, 68 percent of farms had sales less than $10,000 compared to 60 percent for B.C. as a whole. Average gross farm income reported was $36,000 in 1981 compared to $39,959 provincially. Almost all taxfilers in the Salmon Arm District reported some off farm income, with 50 percent reporting wages and salaries.

Agricultural Employment

Over 91 percent of reported days off farm work included non agricultural labour, approximately 85 percent of off farm work was reported from holdings with sales less than $10,000. Farm operators hired an average 11 weeks of farm labour, compared with 24 weeks for the province as a whole. In 1981, farms with sales greater than $50,000 provided 75 percent of agricultural employment.

Agricultural Land Development Act

The number of agricultural holdings in the district increased 13 percent over the period 1976-81. Irrigation and drainage has accounted for over 64 percent of A.L.D.A. expenditures over the last few years. Approximately 23 percent of funds are allocated to land clearing, which has totalled 592 hectares since 1976. Operators report using 3,655 tonnes of fertilizer on 9,357 hectares of agricultural land in 1981.

Farm Capital

The total nominal value of farm capital has increased from $102 million in 1976 to $282 million in 1981. The per farm average rose from $137,000 to $338,000 over the same period. The proportion of investment in land and buildings, machinery and livestock has remained relatively constant since 1976. In 1981, total farm capital per hectare was $7,542, about twice the provincial average.

Age of Operators

The age distribution of farmers remained relatively constant over the period 1976-81 with the largest increase in the 25-34 age group, the total number of farmers increased by 9 percent, the district now represents 4.2 percent of the provincial total.

TABLE 9

SALMON ARM AGRICULTURAL DISTRICT

FARMS CLASSIFIED BY CAPITAL VALUE AND SALES-1981 CENSUS

Capital Value	Sales $250-2499	$2500-9999	$10000-49999	$50000 OR MORE	TOTAL
Less Than $10,000	2	-	-	-	2
$10,000-24,999	1	2	2	-	5
$25,000-49,999	11	4	-	-	15
$50,000-99,999	56	28	5	-	89
$100,000-199,999	135	92	29	1	257
$200,000-499,999	92	114	79	30	315
$500,000 AND OVER	14	20	27	91	152
TOTAL	311	260	142	122	835

SOURCE: Census of Agriculture, 1981

TABLE 10

TOTAL FARM CAPITAL BY FARM SALES, 1981: SALMON ARM DISTRICT

NUMBER OF FARMS

	$250-2499	$2500-9999	$10000-49999	$50000+	TOTAL
NUMBER OF FARMS	311	260	142	122	835
TOTAL CAPITAL VALUE	57,917,315	66,216,203	50,905,772	106,704,389	281,743,679
VALUE OF LAND & BUILDINGS	51,822,116	57,675,959	41,581,617	79,073,103	230,152,795
VALUE OF MACHINERY	4,263,502	5,554,519	5,398,108	12,270,977	27,487,106
VALUE OF LIVESTOCK-POULTRY	1,831,697	2,985,725	3,926,047	15,360,309	24,103,778
AVERAGE CAPITAL VALUE	186,229	254,678	358,491	87,626	337,418
RATIO OF CAPITAL VALUE TO MIDDLE VALUE OF FARM SALES CLASS	135	41	14	5	

SOURCE: Census of Agriculture, 1981

TABLE II

1983 SALES OF FARMS-OKANAGAN KOOTENAY REGION

Area Name	No. Pcls.	Hectares	Sale Price $000s	Value of Improvements	Residual Value	Actual Value	Assessment Sales Ratio	Mkt Value $/Hectare
Penticton	45	660	6,532	$909,600	$5,621,848	$1,075,309	0.191	8,513
Trail	14	1,567	2,179	278,000	1,901,438	1,027,068	0.54	1,213
Kelowna	33	540	6,967	1,040,000	5,926,567	590,580	0.0996	10,972
Vernon	61	1,186	9,974	1,708,500	8,265,750	2,290,223	0.277	6,978
Nelson	7	131	1,065	88,500	976,480	432,240	0.443	7,480
East Kootenay	17	796	2,101	522,800	1,577,945	250,438	0.158	19,942

Source: B.C. Assessment Authority.

TABLE 12

AVERAGE AGE OF FARMERS: SALMON ARM DISTRICT

	1976	1981	CHANGE
Under 25	6	10	+4
25 - 34	67	104	+37
35 - 44	180	195	+15
45 - 54	234	232	-2
55 - 59	74	97	+23
60- 64	97	75	-22
65 - 69	52	58	+6
70 & Over	55	64	+9
TOTAL	765	835	+70
TOTAL PERCENT OF B.C.	3.9	4.2	

Note: These figures include the Columbia-Shuswap sub B and C and North Okanagan sub A census divisions.

SOURCE: Census of Agriculture, 1981

TABLE 13
OKANAGAN REGION
FARM TAXFILER'S INCOME 1980.

	# of Farm Taxfilers	Average Gross Farm Income $'000s	Total Gross Farm Income $'000s	# Reporting Farm Net Income	Average Net Farm Income $'000s	Total Net Farm Income $'000s	# Reporting Wages & Salaries	Average Wage & Salary $'000s	# Reporting Off Farm Income	Average Off Farm Income $'000s	Total Off Farm Income $'000s	Average Income All Sources $'000s	Total Income All Sources $'000s
Central Okanagan	520	16.1	8,391.2	511	0.79	394.2	280	8.9	506	16.0	8,338.7	16.8	8,732.9
Kelowna	1,200	27.8	33,284.4	1,188	2.90	3,477.6	586	8.6	1,181	18.4	22,087.2	21.3	25,564.8
North Okanagan	795	36.8	29,264.0	778	(0.90)	(712.3)	368	7.6	769	13.5	10,724.6	12.6	10,012.2
Vernon	710	25.7	18,267.6	700	(1.24)	(879.0)	406	10.5	700	18.6	13,230.1	17.4	12,351.2
Columbia Shuswap	660	35.0	23,122.4	644	(0.71)	470.6	361	10.0	642	15.6	10,308.5	16.3	10,779.1
Penticton	460	27.0	12,413.1	456	2.12	976.1	221	7.6	451	15.4	7,066.1	17.5	8,042.2
Okanagan Similk.	1,875	25.3	47,411.3	1,846	2.78	521.3	849	5.6	1,819	10.7	19,970.6	13.4	25,186.9
Trail/ Rossland	35	50.0	1,751.2	35	2.03	71.2	23	14.2	35	26.7	935.3	28.8	1,006.5
Kootenay Boundary	330	20.4	6,738.6	322	(0.79)	(259.4)	180	9.2	317	13.2	4,365.9	12.5	4,106.5
Okanagan	6,585	27.4	180,643.7	6,480	1.33	8,755.2	3,274		6,420	14.7	97,027.0	16.1	105,782.2

Source: Revenue Canada.

TABLE 14

OFF-FARM WORK BY FARM OPERATORS BY TYPE OF WORK & FARM SALES, 1981: SALMON ARM

	$250-1599	$1600-2499	$2500-4999	$5000-9999	$10000-49999	$50000 OR MORE	TOTAL
NUMBER OF FARMS	200	111	141	119	142	122	835
DAYS OF OFF-FARM WORK	22,458	11,169	14,188	12,197	8,883	1,574	70,469
FARMS REPORTING	112	58	80	67	54	18	389
AGRICULTURAL OFF-FARM WORK	1,583	176	656	1,686	1,727	466	6,294
FARMS REPORTING	14	4	9	14	12	8	61
NON-AGRICULTURAL OFF-FARM WORK	20,875	10,993	13,532	10,511	7,156	1,108	64,175
FARMS REPORTING	105	55	74	56	45	12	347

SOURCE: Census of Agriculture, 1981

TABLE 15

SALMON ARM AGRICULTURAL DISTRICT

OFF FARM WORK BY FARM OPERATORS BY NUMBER OF DAYS AND FARM SALES-1981 CENSUS

	$250-1,599	$1,600-2,499	$2,500-4,999	$5,000-9,999	$10,000-49,000	$50,000+	TOTAL
1-6 Days	3	1	-	5	4	2	15
7-12	1	1	2	-	-	2	6
13-24	2	1	1	1	5	3	9
25-48	4	3	3	4	5	3	22
49-72	2	4	5	3	2	1	17
73-96	4	2	5	2	1	-	14
97-126	7	4	10	4	7	2	34
127-156	8	2	5	5	1	2	23
157-228	33	15	23	12	16	1	100
229-365	48	25	26	31	17	2	149
Total	112	58	80	67	54	18	389

Source: 1981 Census of Agriculture.

TABLE 16

HIRED AGRICULTURAL LABOUR BY FARM SALES, 1981: SALMON ARM

	$250-1599	$1600-2499	$2500-4999	$5000-9999	$10000-49999	$50000 OR MORE	TOTAL
NUMBER OF FARMS	200	111	141	119	142	122	835
TOTAL WEEKS OF HIRED LABOUR	168	137	281	393	1,121	6,885	8,985
FARMS REPORTING	21	16	43	35	63	99	277
WEEKS OF YEAR-ROUND LABOUR	72	56	51	181	408	5,484	6,252
FARMS REPORTING	5	3	7	7	14	63	99
WEEKS OF SEASONAL LABOUR	96	81	230	212	713	1,401	2,733
FARMS REPORTING	16	13	36	29	54	66	214

SOURCE: Census of Agriculture, 1981

TABLE 17

AGRICULTURE LAND DEVELOPMENT ACT WORK DONE, 1973 - 1982: SALMON ARM DISTRICT OFFICE AREA

	CLEARED			BROKEN			IRRIGATION	DRAINAGE	OTHER	TOTAL
Fiscal Year	Hectares	Cost/ Hectare $	Cost $'000	Hecatares	Cost/ Hectare $	Cost $'000	Cost $'000	Cost $'000	Cost $'000	$'000
1973/74	101	345	35	-	-	-	71	3	-	109
1974/75	129	367	47	-	-	-	197	13	5	262
1975/76	80	338	27	4	150	0.6	79	-	1	108
1976/77	27	451	12	-	-	-	33	7	10	62
1977/78	53	277	15	24	125	3	44	1	13	76
1978/79	39	490	19	10	100	1	24	-	6	50
1979/80	76	464	35	-	-	-	85	15	11	146
1980/81	16	438	7	-	-	-	60	2	7	76
1981/82	71	704	50	24	458	11	63	-	75	199

SOURCE: British Columbia Ministry of Agriculture and Food, A.L.D.A. Branch Records

TABLE 18

SPRAYING, DUSTING AND IRRIGATION, 1981: SALMON ARM

Spraying and Dusting (any)	174
Weed Control (Hec.)	1,516
Farms Reporting	116
For Insect Control (Hec.)	338
Farms Reporting	71
Irrigation - Total Area (Hec.)	5,268
Farms Reporting	277
Sprinkler System - Total Area (Hec.)	4,917
Farms Reporting	259

SOURCE: Census of Agriculture, 1981

TABLE 19

FERTILIZER USE, 1981: SALMON ARM

Total Area (hectares)	9,357
Tonnes	3,655
No. Reports of Any Use	415
Total Cropland (Hec.)	4,112
Tonnes	2,148
Farms Reporting	232
Total Tame Hay (Hec.)	3,702
Tonnes	1,066
Farms Reporting	238
Total Improved Pasture (Hec.)	1,544
Tonnes	441
Farms Reporting	168

SOURCE: Census of Agriculture, 1981

SALMON ARM AGRICULTURAL PRODUCTION

Livestock and Related Products

Sales of livestock and products for 1981 were valued at $23 million or 80 percent of total farm cash receipts. Dairy products accounted for $13 million of this total or 5.8 percent of provincial dairy sales. Total cattle herd size increased by 16 percent to 28,000 head over the period 1976-81. The main trend in the cattle industry is towards numerous small feeding operations of 50 to 100 head which utilize excess corn crops, rather than large operations. Backgrounded cattle are sometimes finished in the district, however most are sold out for finishing. Finishing operations are restricted by a lack of fodder facilities.

Sheep production is small but expanding, mostly is small farm flocks. The hog industry has also experienced rapid growth for several years.

The 1981 census recorded 190,000 chickens, up 12 percent from 169,700 in 1976. Over 88 percent of this population is concentrated in the $50,000+ sales class.

Tree Fruit

Tree fruit production was valued at $928,000 in 1981, almost 2 percent of the provincial crop. The district has 198 hectares under tree fruit cultivation, 56 percent of which is concentrated among holdings with sales in excess of $10,000. Apple cultivation accounts for more than 36 percent of tree fruit area, the highest concentration of the 23,472 trees is in the $50,000+ sales class. Cherry cultivation accounted for 23 percent of tree fruit area.

Small Fruit/Vegetables

Small fruit production, mainly strawberries and other berries was valued at $224,000 in 1981. Most of the acreage planted in small fruits is concentrated in higher sales class holdings. Strawberry cultivation accounts for over 67 percent of small fruit acreage. Field vegetable receipts totalled $368,000 in 1981. Hothouse vegetables and Floriculture/nursery are also important, each being valued at $93,000 and $58,000 respectively. Greenhouse area has increased by 4 percent to 2,541 square meters since 1976. Field crops, mostly wheat and oats totalled $132,000 in 1981 farm cash receipts.

TABLE 20

ESTIMATE OF FARM CASH RECEIPTS, 1981

SALMON ARM AGRICULTURAL DISTRICT

COMMODITY	FARM CASH RECEIPTS $'000	PERCENTAGE	PERCENTAGE OF B.C. OUTPUT
Wheat	67.04	0.23	0.76
Oats	36.03	0.12	1.24
Barley	28.82	0.10	0.35
Potatoes	112.15	0.39	0.61
Small Fruits	224.30	0.78	0.59
Field Vegetables	256.00	0.89	0.88
Floriculture/Nursery	58.28	0.20	0.11
Forest Prod.	78.10	0.27	3.34
Cattle & Calves	3,851.87	13.34	3.14
Income Ins.	560.22	1.94	
Hogs	4,192.70	14.52	8.07
Income Ins.	7.59	0.03	
Sheep	142.27	0.49	5.40
Income Ins.	8.36	0.03	
Poultry & Eggs	2,568.39	8.90	1.90
Income Ins.	0.95	0.00	
Dairy Products	12,582.7	43.59	5.80
C.D.C. Subsidy	502.38	1.74	
Honey	51.95	0.18	1.02
Tree Fruit	928.37	3.22	1.72
Income Ins.	396.68	1.37	
Hothouse	93.83	0.33	0.32
Income Ins.	3.29	0.01	
Other	2,115.24	7.33	3.09
TOTAL	28,867.60		

SOURCE: Ministry of Agriculture and Food, 1983.

TABLE 21

AREA IN FIELD CROPS BY FARM SALES, 1981: SALMON ARM-IN HECTARES

	$250-1599	$1600-2499	$2500-4999	$5000-9999	$10000-49999	$50000 OR MORE	TOTAL
Number of Farms	200	111	141	119	142	122	835
Flaxseed	-	-	-	-	-	-	-
Farms Reporting	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-
Farms Reporting	-	-	-	-	-	-	-
Tame Hay - Total	910	448	799	994	2,004	3,696	8,850
Farms Reporting	122	71	103	83	107	101	587
Alfalfa and Mixtures	675	299	610	776	1,580	2,721	6,660
Farms Reporting	101	57	89	71	92	89	499
Other Tame Hay	236	149	189	218	424	975	2,189
Farms Reporting	34	27	31	30	35	47	204
Oats for Fodder	32	64	60	71	204	255	686
Farms Reporting	12	17	18	17	29	30	123
Other Fodder Crops	8.1	20	13	29	72	150	293
Farms Reporting	2	2	2	3	5	9	23

Source: 1981 Census of Agriculture.

TABLE 22

SALMON ARM AGRICULTURAL DISTRICT

AREA OF VEGETABLES ON FARMS, IN HECTARES- 1981 CENSUS OF AGRICULTURE

	$250-1,599	$1,600-2,499	$2,500-4,999	$5,000-9,999	$10,000-49,999	$50,000+	TOTAL
Number of Farms	200	111	141	119	142	122	835
Vegetables	4.41	2.43	2.06	4.86	5.30	50.0	69.0
Farms Reporting	9	8	3	8	4	3	35
Asparagus	0.20	0.41	0.12	-	2.83	-	3.56
Farms Reporting	1	1	2	-	1	-	5
Beans	0.24	0.08	0.08	0.12	0.04	-	0.57
Farms Reporting	2	2	2	3	1	-	10.0
Beets	0.20	0.16	0.08	0.41	0.04	-	0.89
Farms Reporting	1	3	2	4	1	-	11
Broccoli	0.04	-	0.08	-	0.04	-	0.16
Farms Reporting	1	-	2	-	1	-	4
Cabbage	-	0.08	0.08	0.04	0.04	-	0.24
Farms Reporting	-	2	2	1	1	-	6
Carrots	-	0.20	0.12	0.53	0.04	2.83	3.72
Farms Reporting	-	3	2	4	1	1	11
Cauliflower	-	0.04	0.04	-	0.04	-	0.12
Farms Reporting	-	1	1	-	1	-	3
Cucumbers	0.20	0.16	0.08	0.12	0.04	-	0.61
Farms Reporting	1	3	2	3	1	-	10
Green Peas	-	0.04	0.04	0.12	0.04	-	0.24
Farms Reporting	2	1	1	2	1	-	5
Lettuce	-	0.04	0.08	-	0.04	-	0.16
Farms Reporting	-	1	1	-	1	-	3
Onions (Dry)	-	0.12	0.08	-	0.04	-	0.24
Farms Reporting	-	3	1	-	1	-	5
Rutabagas	-	-	0.04	-	-	-	0.04
Farms Reporting	-	-	1	-	-	-	1
Sweet Corn	3.20	0.73	0.20	2.55	1.01	46.0	54.00
Farms Reporting	5	4	1	5	2	2	20
Tomatoes	0.28	0.08	0.24	0.28	0.04	-	0.93
Farms Reporting	2	2	2	2	1	-	9
Other Vegetables	0.04	0.28	0.69	0.69	1.01	0.81	3.52
Farms Reporting	1	2	2	3	1	1	10

TABLE 23
SALMON ARM AGRICULTURAL DISTRICT
AREA IN SMALL FRUITS BY FARM SALES IN HECTARES-1981 CENSUS

	$250-1,599	$1,600-2,499	$2,500-4,999	$5,000-9,999	$10,000-49,999	$50,000+	TOTAL
Number of Farms	200	111	141	119	142	122	835
Small Fruits	4.98	2.47	6.52	5.22	14.0	-	33.0
Farms Reporting	15	8	9	9	7	-	48
Strawberries	3.24	1.50	2.06	3.68	11.0	-	22.0
Farms Reporting	8	4	4	5	5	-	26
Grapes	0.32	-	0.08	0.20	0.20	-	0.81
Farms Reporting	2	-	2	1	1	-	6
Other Berries	1.42	0.97	4.37	1.34	2.27	-	10.0
Farms Reporting	8	5	7	3	3	-	26

Source: 1981 Census of Agriculture.

TABLE 24

SALMON ARM AGRICULTURAL DISTRICT

AREA IN TREE FRUITS BY FARM SALES IN HECTARES-1981 CENSUS

	250-1,599	$1,600-2,499	$2,500-4,999	$5,000-9,999	$10,000-49,999	$50,000+	TOTAL
Number of Farms	200	111	141	119	142	122	835
Tree Fruits	37	19	19	12	50	60	198
Farms Reporting	20	18	13	10	7	3	71
Apple	25	7.6	10	4.1	27	53	71
Farms Reporting	16	15	9	8	7	3	58
No. of Apple Trees	5,091	1,286	3,225	522	4,126	9,222	23,472
Pear	1.5	0.81	0.77	0.97	1.01	1.46	6.52
Farms Reporting	11	12	8	9	4	2	46
Number of Pear Trees	155	46	48	91	97	143	580
Plum and Prune	1.62	2.91	0.69	0.81	2.39	0.41	8.82
Farms Reporting	12	14	8	8	5	2	49
Number of Trees	163	253	87	78	234	56	871
Cherry (Sweet)	6.72	6.31	5.91	4.69	16	3.64	43
Farms Reporting	20	15	11	9	6	3	64
Number of Cherry Trees	681	545	723	397	1,252	428	4,024
Cherry (Sour)	0.41	0.49	0.28	0.28	0.36	0.20	2.02
Farms Reporting	6	6	4	3	3	1	23
Number of Trees	34	44	8	13	33	12	144
Peach	0.81	0.36	1.17	0.57	1.46	0.20	4.57
Farms reporting	8	6	5	7	3	1	30
Number of Peach Trees	92	14	271	39	206	10	632
Apricot	1.34	0.93	0.45	0.57	3.08	0.41	6.76
Farms reporting	12	10	5	6	5	2	40
Number of Apricot Trees	48	32	20	47	200	23	370

Source: 1981 Census of Agriculture.

TABLE 25
SALMON ARM AGRICULTURAL DISTRICT
AREA IN SPECIALTY CROPS BY FARM SALES IN HECTARES-1981 CENSUS

	$250-2,499	$2,500-9,999	$10,000-49,999	$50,000+	TOTAL
Number of Farms	311	260	142	122	835
Nusery Products	n.a.	n.a.	n.a.	n.a.	n.a.
Farms Reporting	2	1	1	-	4
Greenhouse Sq. Metres	n.a.	n.a.	n.a.	n.a.	2,541.
Farms Reporting	2	2	2	1	7

Source: 1981 Census of Agriculture.

TABLE 26
SALMON ARM AGRICULTURAL DISTRICT
LIVESTOCK NUMBERS BY FARM SALES-1981 CENSUS

	$250-2,499	$2,500-9,999	$10,000-49,999	$50,000+	TOTAL
Number of Farms	311	260	142	122	835
Cattle-Total Number	2,754	4,566	6,124	14,605	28,049
Farms Reporting	190	184	109	105	588
Cows-Total Number	963	1,759	2,340	6,965	12,027
Farms Reporting	157	151	94	101	503
Dairy Cows-Number	n.a.	n.a.	n.a.	n.a.	n.a.
Farms Reporting	84	54	35	81	254
Beef Cows-Number	n.a.	n.a.	n.a.	n.a.	n.a.
Farms Reporting	107	130	76	32	345
Heifers-Total Number	n.a.	n.a.	n.a.	n.a.	n.a.
Farms Reporting	102	121	85	98	406
Steers-Number	n.a.	n.a.	n.a.	n.a.	n.a.
Farms Reporting	99	87	63	49	298
Bulls-Number	n.a.	n.a.	n.a.	n.a.	n.a.
Farms Reporting	59	88	66	55	268
Calves-Number	986	1,498	2,145	3,491	8,120
Farms Reporting	148	151	94	96	489
Pigs-Total Number	n.a.	n.a.	n.a.	n.a.	n.a.
Farms Reporting	48	26	25	20	119
Sheep-Total Number	n.a.	n.a.	n.a.	n.a.	n.a.
Farms Reporting	20	25	12	10	67
Horses-Number	371	431	327	128	1,257
Farms Reporting	100	93	47	44	284

Source: 1981 Census of Agriculture.

TABLE 27
SALMON ARM AGRICULTURAL DISTRICT
POULTRY NUMBERS BY FARM SALES-1981 CENSUS

	250-2,499	$2,500-9,999	$10,000-49,999	$50,000+	TOTAL
Number of Farms	311	260	142	122	835
Hens/Chickens Total No.	8,270	7,522	6,367	167,903	190,062
Farms Reporting	163	119	57	41	380
Turkeys-Number	n.a.	n.a.	n.a.	n.a.	n.a.
Farms Reporting	22	14	5	2	43
Geese-Number	n.a.	n.a.	n.a.	n.a.	n.a.
Farms Reporting	22	21	8	8	59
Ducks-Number	n.a.	n.a.	n.a.	n.a.	n.a.
Farms Reporting	27	22	5	5	59

Source: 1981 Census of Agriculture.

APPENDIX

TERMS USED IN THE CENSUS OF AGRICULTURE

Census-farm areas

The area of census-farms reported for each subdivision represents the area of land operated by farmers whose headquarters are in the subdivision.

Crown lands, usually pasture land, which were operated under a lease agreement with federal, provincial or municipal governments, are reported as part of the farming operation of the person to whom the land was leased. However, land which was used under a per head grazing permit or fee is not included.

Large areas of timber land or other non-agricultural land held by the operator, but operated apart from the farm business, are excluded.

Use of Land

All farm land is classified according to use under two major divisions: improved and unimproved land.

Improved Land

1) Crop land - Included in this item is the total area of crop land sown for harvest in the census year. Crop land includes the total area of all field crops, plus the areas of fruits, vegetables, greenhouses, mushroom houses and nursery products. Because some crops are reported in fractions of a hectare, there may be slight differences between the sum of the individual crop areas and the total crop land.

2) Improved pasture - All land which was being used for pasture or grazing and which has had some improvements made to it in recent years is included. Improvements would include cultivation, drainage, irrigation, fertilization, seeding down or spraying.

3) Summer fallow - The enumerator was instructed to include in this item land from which no crop was to be harvested during the census year, but which was to be cultivated or worked during the year for weed control and/or for moisture conservation.

4) Other improved land - This item includes the area of barnyards, home gardens, lanes and roads on farms. It also includes areas of cultivated land that were lying idle, being neither summer-fallowed nor cropped, and areas of new breaking that had not been seeded to a crop.

Unimproved Land

The area of unimproved land consists of the total areas reported for 1) woodland and 2) other unimproved land.

1) Woodland - This includes farm woodlots, land leased for cutting, sugar bush and cut-over land with young growth which has or will have value as timber, fuelwood or Christmas trees. The area of tress planted for wind-breaks was also to be included. It excludes large timber tracts which are run as a separate business from the farm. There is some evidence that changes in the area of this item between censuses may be due to differences in interpretation. This would be particularly true in areas of bushland.

2) Other unimproved land - Areas of native pasture or hay land that had not been cultivated, bush pasture, grazing or waste land, sloughs, marsh and rocky land et cetera, are all included in this item.

TERMS USED IN LAND CAPABILITY RATINGS

Class 1 land is capable of producing the very widest range of vegetables, cereal grains, forages, berry fruits and numerous specialty crops. Soil and climatic conditions are opitimum.

Class 2 land is capable of producing a wide range of regional crops as above with some differences in variety due to minor restrictions of soils and climate.

Class 3 land is capable of producing a fairly wide range of regional crops under good management practices. Soils and/or climate limitations are somewhat restrictive.

Class 4 land is capable of a restricted range of regional crops such as hardy cereal grains, hardy vegetables, and forages. Soil and climate limitations demand special management considerations.

Class 5 land is capable of production of perennial forage crops only. Soil and/or climate restrictions severely limit the land's capability.

Class 6 land is natural rangeland. Soil and/or climate limitations preclude cultivation, but the land may be important in its natural state as grazing land.

Class 7 land has no agricultural capability whatsoever.

UNIMPROVED These figures are derived from the Canada Land Inventory dry-farm ratings. They do not reflect either present land use or the state of readiness for cultivation, but only the potential capability if used for agriculture.

IMPROVED These figures are derived from the Canada Land Inventory irrigated ratings. They reflect the capabitity for agriculture if the land unit were irrigated and/or drained. They do not indicate whether the land unit is presently either irrigated or drained.

WATER SURFACES This category includes all non-seasonal lakes and rivers. It also includes that part of the Strait of Georgia, between Vancouver Island and the Mainland , that falls within latitudes 49 N to 51 N.

OTHER This category includes all regions of the province that were not mapped due to limited agricultural potential, national parks, and unmapped urban areas.

Okanagan Kootenay Region

District Office:

Samara Building
Box 639
Salmon Arm, B.C.
V0E 2T0

Telephone: 832-2088

Queen's Printer for British Columbia ©
Victoria, 1984